

International Symposium
Programs
Climate change & Water 2022
May 31 – June 1 – June 2



ccw2022.sciencesconf.org



Milieux & Diversité
Réseau thématique de recherche
en Région Centre Val de Loire



Monday, May 30, 2022

Maison des Sciences de l'Homme - Computer lab

Opening training Hydrological modelling : Keynotes

08h30-10h30 **Claudio Paniconi** Introduction to hydrological modelling
invited speaker, INRS, Québec

10h30-11h00

Coffee Break

11h00-12h30 **Sihem Benabdallah** Introduction to SWAT model
invited speaker, Certe, Tunisia

12h30-14h00

Lunch Break

Hydrological modelling : Training

14h00-18h00 **Haykel Sellami**, Certe, Tunisia Introduction to SWAT manipulation
Kaoutar Mounir, PhD student,
Univ. Tours, France
Univ Fès, Marocco



19h00

ICE BREAKING (end ~ 20h30)

Cocktail at the city hall, Tours

For all participants and speakers of the symposium

Venue : <https://ccw2022.sciencesconf.org/resource/acces>

Tuesday 31 May 2022

UNIVERSITY OF TOURS - Amphitheater Thélème

08h30

Welcome & Registration

Opening session (chaired by Isabelle LA JEUNESSE, U.Tours, FR)

09h00	Arnaud Giacometti François Bonneau Betsabée Haas Nora Semmoud Sylvie Servain Isabelle La Jeunesse & Sylvain Pincebourde	Opening by the President, University of Tours Centre-Val de Loire Region President Deputy Mayor of Tours, (biodiversity, nature, risk management and animal welfare) Dir. Laboratory CNRS 7324 Citeres of the University of Tours MiDi Network (Environments & Diversity) Opening CCW 2022 conference
09h45-10h00	Rosana Lopez Rodriguez <i>Invited speaker</i>	Current state of impacts of climate changes on Earth vegetation
10h00-10h15	Denis Salles, Invited speaker	INRAe (FR) Bordeaux : Adaptation to climate change: a governance issue
10h15-10h45		Coffee Break

Session: Community of European Research and Innovation for Security (CERIS) Side-Event Chaired by Philippe Quevauviller (European Commission DG HOME, BE)

10h45-11h00	Philippe Quevauviller	Introduction to CERIS: Community-building in the area of disaster risk management
11h00-11h15	Daniel Sempere-Torres	ANYWHERE EU project
11h15-11h30	Ilias Gialampoukidis	BeAWARE EU project
11h30-11h45	Dominique Darmendrail, Agathe Euzen, Thibault Datry	Connecting European partnerships and a national research and innovation program (OneWater) on water challenges to accelerate transitions and measure impacts on socio-hydrosystems.
11h45-12h15	Panel discussion	Philippe Quevauviller, Ilias Gialampoukidis, Hripsimé Torossian, Dominique Darmendrail

12h15-13h45

Lunch Break

Poster session

Session: How governance and policy cope with extremes (Chaired by Isabelle La Jeunesse)

13h45-14h00	Hans Bressers, Gül Özerol	Coping with extreme events in mid-sized cities: Enabling practitioners to assess the supportiveness of their governance context
14h00-14h15	Amal Ennabih	The institutional challenges of the design and implementation of a climate change adaptation policy: the case of treated wastewater reuse for agricultural irrigation in Morocco
14h15-14h30	Vassili Kypreos, Guillaume Lacquement, Ludwig Wolfgang	What collective strategies for adaptation to climate change? The role of irrigation associations in water resource management, a case study in Roussillon.
14h30-14h45	Catteau Suzanne, Couderchet Laurent	Integrating scales and knowledge of local stakeholders with Geographic Information Systems to develop adaptation strategies based on wetlands functioning

14h45-15h15

Break

Session: Adaptation to drought (Chaired by Sylvain Pincebourde)

15h15-15h30	Andrea Böhnisch, Elizaveta Felsche, Magdalena Mittermeier, Ralf Ludwig	Water availability during present and future heat-drought compound events in Europe
15h30-15h45	Di Costanzo Hadrien, Martin Philippe	Hydrosec : a drought monitoring tool for watershed managers in south-eastern France
15h45-16h00	Terence Epule, bdelghani Chehbouni, Driss Dhiba, Mirielle Wase Moto	The Readiness Index for Climate Change Adaptation in Africa: The Role of Climate and Adaptive Capacity Proxies

16h00-16h30

Coffee Break

ECRA Session (chaired by Ralf LUDWIG)

Societal challenges related to climate change impacts on the hydrological cycle - risk analysis, vulnerability and adaptation

16h30-16h40	Peter Braesicke	Welcome Presentation of ECRA goals, working groups and outputs by ECRA chair, Helmholtz Association, KIT
16h40-16h55	Hans-Martin Füssel	Climate change vulnerability and adaptation in Europe Keynote 1- European Environment Agency, BE
17h55-17h10	Nathalie Ollat	Adaptation of wine growing production to drought Keynote 2 - INRAe Bordeaux, FR
17h10-18h00	Panel discussion	Hans-Martin Füssel - Denis Salles - Peter Braesicke - Nathalie Ollat - Sihem Benabdallah - Rosana Lopez Rodriguez

18h00-18h10 Introduction to the wine testing at the cocktail of the wine produced in the Loire Valley and the impacts of climate changes (by Interloire)

19h00

ECRA cocktail at the Tours City Hall (Hôtel de ville) open to all participants : by Walk (10 minutes) or tramway (stop at Jean-Jaurès) - end ~ 20h30



Wednesday 1 June 2022 UNIVERSITY OF TOURS - Amphitheater Thélème

8h00

Welcome

Session: Ecosystems and food security (Chaired by Isabelle La Jeunesse)

08h30-9h00	Hervé Le Treut, <i>Invited speaker</i>	IPSL (FR)- Global warming : where we are
09h00-09h15	Achli Soumia , Terence Epule, Driss Dhiba, Abdelghani Chehbouni	Vulnerability of wheat, barley, and maize yields to growing season precipitation in Morocco
09h15-09h30	Laurent Léa , Albin Ullmann, Claude Perrot, Xavier Aubouy, Thierry Castel	How abrupt change in surface temperature impact water balance over France? A case-study of bread wheat cultivated areas.
09h30-09h45	Leclerc Mathieu , Pincebourde Sylvain	Early larval stages weakly respond to thermal variance and heat wave event in a dragonfly
09h45-10h00	Pons Marie-Noëlle , Poszwa Anne	Effect of clear-cuts on the quality of surface water in the Vosges Mountains

10h00-10h30

Coffee Break

Session: Water-energy-food-ecosystem nexus (Chaired by Janez Susnik)

10h30-10h45	Ioannou Alexandra , Chrysi Laspidou	Systemic Resilience Analysis through a Water-Energy-Food-Climate Nexus Approach
10h45-11h00	Corchero Aitor , Hannah Arpke, Stefania Munaretto, Lydia Vamvakieridou-Lyroudia, Christos Makropoulos, George Armapatzis, Hella Schwarzmüller, Andrea Marioni	A resilient knowledge boosters for elaborating adaptation and mitigation measures to minimize the effects of climate change
11h00-11h15	Sylvie Parey , Joël Gailhard, Hervé Cordier, Alexandre Barré	An example of the climate-water-energy nexus in 2050 for France

Session: Adaptation of wine production to climate change (Chaired by Etienne Neethling)

11h15-11h30	Etienne Neethling (keynote)	Trends in rainfall and soil water availability with climate change: What are the temporal and spatial issues for viticulture in France?
11h30-11h45	Gaël Bohnert , Brice Martin	Impacts of Climate Change induced drought and adaptation strategies in winegrowing in the Rhine Valley (France, Germany, Switzerland)
11h45-12h00	Myriam Laidet	A "Vinescape Plan" to design the resilience of a World Heritage vineyard : proposal based on case studies on Unesco site of Val de Loire.

12h00-13h30

Lunch

Poster session

- 14h00** **Departure for the visit of a Loire Valley castle : CHENONCEAU (Bus in front of the Amphitheater main entrance) (back ~ 18h30). The visit contains also a presentation of issues with water levels in the Cher river over which the castle spans (Catherine Boisneau)**
- 19h00** **Gala Diner at "La Cave" Restaurant in Montlouis-sur-Loire (Bus in front of the Amphitheater main entrance) (Back 23h30)**

08h30	Welcome	
Session : Management of hydrosystems under hydrometeorological extremes (Chaired by Stéphane Rodrigues)		
09h00-09h15	Sébastien Salvador, <i>Keynote speaker</i>	CNRS Loire Workshop (ZAL) : Research on and for the Loire river basin
09h15-09h30	Ralf Ludwig, Gunnar Braun, Raul Wood, Florian Willkofer, Teresa Perez Ciria	Managing water resources under new climatic extremes in the Main river basin, Germany
09h30-09h45	Lisa Baulon, Manuel Fossa, Nicolas Massei, Nicolas Flipo, Nicolas Gallois, Matthieu Fournier, Bastien Dieppois, Julien Boé, Luminita Danaila, Delphine Allier, Hélène Bessiere	Sensitivity of a large hydrosystem to changes in climate variability: application to the high and low groundwater level response of the Seine Basin
09h45-10h00	Julie Gobert	Climate change hazards and the choice of infrastructural strategies
10h00-10h15	Pierre-Alain Ayrat, Jean-Marc Domergue, Anne Johannet, Didier Josselin, Nadine Gard	Problem of hydrological metrology of low streams and impact on the estimation of water resources
10h15-10h45	Coffee Break	
Session: Adaptation to floods (Chaired by Haykel Sellami)		
10h45-11h00	Kabir Md. Humayian, Gottfried Kirchengast	Extreme precipitation events and its drivers: an insight from a systematic review from 1993 to 2021
11h00-11h15	Pierre Cornut, Nathalie Long	Strategies of protection against marine submersion and environmental inequalities - Case of La Rochelle coastal area, Charente Maritime
11h15-11h30	Antoine Brochet, Joana Guerrin	From riskscales of flooding and marine submersion in the Rhone delta to climate change adaptation strategies
11h30-11h45	Amélie Monfort	Experiential learning on coastal flooding risk through the application of the LittoSIM participatory simulation to five French case studies
11h45-13h30	Lunch	
Poster session		
Session: Modelling approaches for the development of decision support systems (Chaired by Claudio Paniconi)		
13h30-13h45	Joëlle Nicolas, Jérôme Verdun, Jean-Paul Boy, Achraf Koulali, Peter Clarke	Space geodesy and climate change : A review
13h45-14h00	Pierre-Alain Ayrat, Didier Josselin, Nicolas Martin, Vignal Matthieu	Impact of scales and sample size on temperature assessment within downscaling processes
14h00-14h15	Salih Wiam, Epule Terence, Abdelghani Chehbouni	An Evaluation of the Performance of Multi-source Satellite Products in Simulating Precipitation over the Tensift Basin in Morocco
14h15-14h30	Susnik Janez, Stefano Terzi, Stefan Schneiderbauer, Silvia Torresan, Andrea Critto	Stochastic system dynamics modelling for climate change water scarcity assessment on a reservoir in the Italian Alps
14h30-14h45	Kaoutar Mounir, Haykel Sellami, Imen El Ghoul, Abdessalam El Khanchoufi, and Isabelle La Jeunesse	What hydrological modelling Water management issues highlighted by hydrological modelling in the Ouergha catchmentin the Ouergha catchment (Morocco)
14h45-15h00	Attou Taha, Sylvain Kuppel, Lhoussaine Bouchaou, Laurence Vidal, Jamal Ezzahar, Abdelghani Chehbouni	A modelling approach for assessing groundwater recharge and crop water use in irrigated, semi-arid agricultural systems
15h00-15h15	El Ghoul Imen, Fatma Tliha, Haykel Sellami, Kaoutar Mounir, Slaheddine Khlifi, Marnik Vanclooster	Climate change induced impacts on hydrological extremes at the catchment scale: case of Wadi Siliana (North western Tunisia)
15h15-15h45	Coffee break	
Session: Adaptation to hydrometeorological extremes in land planning (Chaired by Corinne Larrue)		
15h45-16h00	Mohamed Taabni	The implementation of GEMAPI in intercommunalities in Poitou Charentes: between new areas of jurisdictions restructuring of means of internantion, new modes of action
16h00-16h15	Mathilde Gralepois, Sofia Guevara Viquez, Jérôme Cardinal, Marie Fournier	Procedural justice in extreme events management: what challenge for climate change adaptation strategies ?
16h15-16h30	Le Calvez Caroline, Oumar Marega, Bertrand Sajaloli, Aladji Madior Diop, Tarek Nasser	Climate extremes adaptation in urban wetlands in Diourbel (Senegal) and in Bourges (France)
16h30-16h45	Saray Chavez, Nathalie Molines, Katia Chancibault, Bernard de Gouvello	Deciphering urban planning documents to reveal the potential to accommodate climate change adaptation solutions in a territory
16h30	Concluding remarks CCW2022 (Isabelle La Jeunesse, Chair of the conference)	
16h40	End of conference	



Poster session

Number	Authors	Title
1	Attar Oumaima , Youssef Brouziyne, Lhoussaine Bouchaou, Driss Dhiba, Abdelghani Chebouni	Research on water resources challenges in the Souss-Massa Basin-Morocco: the ways forward to bridge the gaps
2	Badji Aïssatou , Elsa Mohino, Juliette Mignot, Moussa Diakhate, Amadou Thierno Gaye	Decadal variability of extreme rainfall indices in Senegal
3	Hanchane Mohamed , Jaafar Kassiouï	Evolution of extreme weather types in relation to atmospheric circulation types in morocco
4	Isabelle La Jeunesse , Rémi Coquard, Samuel Leturcq, Corentin Thermes, Michel Badier	Climate change pressures on wine production in France: a preliminary study of the evolution of the spatial distribution of grape varieties
5	Isabelle La Jeunesse & NEXOGENESIS partners	Facilitating the next generation of effective and intelligent water-related policies utilising artificial intelligence and reinforcement learning to assess the water-energy-food-ecosystem (WEFE) nexus (H2020 NEXOGENESIS)
6	Isabelle La Jeunesse & ARSINOE partners	Climate resilient regions through systemic solutions and innovations (H2020 ARSINOE)
7	Judith Eeckman , Jean-Michel Fallot	Characterization of the drought risk in the Vaudois Alps and topoclimatic specificity of mountain territories
8	Kabir Md. Humayain	Trends of extreme compound events research: A global perspectives
9	Medjadj Tarek , Setti M'Hamed	Spacing Hinterland water for Algiers
10	Nicolas Joëlle , J. Verdun, J.P-Boy, A. Koulali, P. Clarke	Space geodesy and climate change - Case studies
11	Ouattara Sangboliewa Lanzeny , Aichatou Koné	climate change and adaptation strategies of producers in Napié (North of Côte d'Ivoire)
12	Sasse Alexander , Benjamin Poschlod, Ralf Ludwig	Climate change impacts on riverine low flows “ Setting up a hydrological large ensemble“
13	Shudufhadzo Godlive Mukwevho , R. Makungo	Climate change impact on hydrology of Latonyanda Quaternary catchment, Limpopo, South Africa
14	Silva Nathan , Isabelle La Jeunesse, Alexis Metzger	Flood risk culture in the city of Tours: a work in progress
15	Sohou Serge Olivier , N'Da Kouadio Christophe	Caractérisation des extrêmes pluviométriques par l'analyse des indices climatiques dans le nord savanicole ivoirien de 1981 à 2020
16	Zied Ajimi , Slim Rouz, Dalanda Haddaji, Latifa Bousselmi	Living green wall (LGW) performances to treat real grey water

